

Date: Fri, 23 Sep 94 21:31:29 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #1055  
To: Info-Hams

Info-Hams Digest                      Fri, 23 Sep 94                      Volume 94 : Issue 1055

Today's Topics:

    \* SpaceNews 26-Sep-94 \*  
    IPS Daily Report - 22 September 94  
        orbs\$266.1of2.amsat  
        orbs\$266.21.amsat  
        TH79a For Sale  
        Wuoff hong (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 23 Sep 94 18:50:48 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: \* SpaceNews 26-Sep-94 \*  
To: info-hams@ucsd.edu

SB NEWS @ AMSAT \$SPC0926  
\* SpaeNews 26-Sep-94 \*

BID: \$SPC0926

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SpaceNews  
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MONDAY SEPTEMBER 26, 1994

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

★ MACHHOLTZ-2 NEWS ★

=====

Astronomers are keeping a watchful eye on Machholtz-2, a comet discovered to be racing toward the Sun by an American scientist last month. Shortly after the comet was discovered, observers reported the comet had broken up in a manner similar to comet Shoemaker-Levy-9 before its impact with Jupiter in July, and there is some concern the fragments of comet Machholtz-2 could impact the Earth in the future. Five fragments have been spotted so far, and all are heading for Earth's orbit. However, astronomers warn it is extremely difficult to predict the long-term behavior of the comet fragments and advise the comet will be monitored closely.

★ NOAA-11 FAILURE ★

=====

Reliable sources report that NOAA-11's AVHRR failed at 23:30 UTC on 13-Sep-94. A brief report indicated that the fault appeared to be electrical. NESDIS personnel have been working diligently to solve the problem, but it seems that APT as well as high resolution images are no longer available from NOAA-11 because of this failure.

★ AO-16 RELOAD COMPLETE ★

=====

As of 0330 UTC on 21-Sep-94, the AO-16 File Server is open and returned to general use. The AO-16 Command Team would like to thank everyone for their patience during this important "Preventive Maintenance" reload. Thanks go to the AO-16 Command Team consisting of WJ9F, WD0E, VK7ZBX, KB5MU, as well as NK6K and WB9ANQ.

[Info via Russ Platt, WJ9F]

★ NASA NEWS VIA E-MAIL ★

=====

NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov). In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message

will include additional information on the service. Questions should be directed to (202) 358-4043.

★ MIR NEWS ★

=====

On 09-Sep-94 Malenchenko and Musabayev performed an EVA for the first time. The duration of the EVA was more than 4 hours (a reliable source even spoke about 5 hrs 2 mins.). During the pass in orbit 48915, between 1200 and 1207 UTC when Mir was VHF of observers in Europe, the cosmonauts reported the closure of the hatch at 1202 UTC. During this EVA they inspected the outside of the entire orbital complex, installed experimental materials on outside platforms for exposure to open space and removed other experiments of that kind for storage inside the complex. They repaired the damaged thermo-isolation layer on the transition section (P.Kh.O.) of which a 30x40cm piece had been torn away during the collision with Soyuz-TM17 in January 1994. The inspection made clear that the toughes of the freighter Progress-M24 during its second approach on 30-Aug-94 did not cause significant damage.

On 13-Sep-94 the cosmonauts worked in open space for a second time. The EVA lasted 6 hours and 1 minute between 0631 UTC (opening of the hatch) and 1232 UTC (closure of the hatch). The cosmonauts performed many minor repairs, replaced bolts, screws, etc. of platforms and equipment on the outer surface of the complex. They also spoke about an old antenna. Activities of that kind must be done now and then, but have been often neglected during EVA's due to more important matters. The cosmonauts also did some preparatory work aimed at the future transfer of the solar batteries from Kristall to Kvant-1. This transfer has been put back again to the beginning of 1995.

Radio communications during the EVAs were copied in Europe on a frequency somewhat lower than normal, 143.622 MHz, shifting by Doppler to 143.617 MHz. Listeners in Western-Europe, including the UK, who monitor MIR traffic during EVAs often experience heavy interference caused by cross-modulation from an airtraffic control frequency.

[Info via Chris v.d. Berg, NL-9165/A-UK3202]

★ THANKS! ★

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Thanks to all those who sent messages of appreciation to SpaceNews, especially:

7J1AJH    N2RIF    VK3DTH    K4TXK/KL7    OA4PQ    WB5PUM    N6EGY    W8QX

\* FEEDBACK/INPUT WELCOMED \*

=====

Mail to SpaceNews should be directed to the editor (John, KD2BD) via any of the following paths:

FAX : 1-908-747-7107  
PACKET : KD2BD @ N2KZH.NJ.USA.NA  
INTERNET : kd2bd@ka2qhd.de.com -or- kd2bd@amsat.org  
SATELLITE : AMSAT-OSCAR-16, LUSAT-OSCAR-19

MAIL : John A. Magliacane, KD2BD  
Department of Engineering and Technology  
Advanced Technology Center  
Brookdale Community College  
Lincroft, New Jersey 07738  
U.S.A.

<<= SpaceNews: The first amateur newsletter read in space! -=>>

/EX

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John A. Magliacane, KD2BD \* /\ \* Voice : 1-908-224-2948  
Advanced Technology Center |/\| Packet : KD2BD @ N2KZH.NJ.USA.NA  
Brookdale Community College |/\| Internet: magliaco@pilot.njin.net  
Lincroft, NJ 07738 \* \/\ \* Morse : -. -.. ..--- -... -..

-----  
Date: Thu, 22 Sep 1994 23:21:56 GMT  
From: darwin.sura.net!howland.reston.ans.net!gatech!news-feed-1.peachnet.edu!  
news.duke.edu!zombie.ncsc.mil!gmi!msuinfo!harbinger.cc.monash.edu.au!  
news.cs.su.oz.au!metro!ipso!rwc@seismo.css.  
Subject: IPS Daily Report - 22 September 94  
To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT  
ISSUED AT 22/2330Z SEPTEMBER 1994 BY IPS RADIO AND SPACE SERVICES  
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.  
SUMMARY FOR 22 SEPTEMBER AND FORECAST FOR 23 SEPTEMBER - 25 SEPTEMBER  
-----

1A. SOLAR SUMMARY  
Activity: very low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 71/6

GOES satellite data for 21 Sep

Daily Proton Fluence >1 MeV: 1.5E+06

Daily Proton Fluence >10 MeV: 1.2E+04

Daily Electron Fluence >2 MeV: 2.0E+07 (normal)

X-ray background: A1.0

Fluence (flux accumulation over 24hrs)/ cm2-ster-day.

#### 1B. SOLAR FORECAST

	23 Sep	24 Sep	25 Sep
Activity	Very low	Very low	Very low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number for 23 Sep: 72/8

#### 2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: quiet

Estimated Indices :	A	K	Observed A Index 21 Sep
Learmonth	5	2211 1212	
Fredericksburg	5		7
Planetary	5		5

Observed Kp for 21 Sep: 2111 2222

#### 2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
23 Sep	8	Quiet
24 Sep	8	Quiet
25 Sep	10	Quiet to unsettled

#### 3A. GLOBAL HF PROPAGATION SUMMARY

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
22 Sep	normal	normal	normal

PCA Event : None.

#### 3B. GLOBAL HF PROPAGATION FORECAST

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
23 Sep	normal	normal	normal
24 Sep	normal	normal	normal
25 Sep	normal	normal	normal

#### 4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

Observed

DATE T-index MUFs at Sydney  
22 Sep 35 15 to 30% above predicted monthly values

Predicted Monthly T-index for September: 20

#### 4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE T-index MUFs  
23 Sep 30 15 to 20% above predicted monthly values  
24 Sep 25 Near predicted monthly values  
25 Sep 20 Near predicted monthly values

--

IPS Regional Warning Centre, Sydney	IPS Radio and Space Services
RWC Duty Forecaster tel: +61 2 4148329	PO Box 5606
Recorded Message tel: +61 2 4148330	West Chatswood NSW 2057
email: rwc@ips.oz.au fax: +61 2 4148331	AUSTRALIA

-----  
Date: 23 Sep 94 14:44:00 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: orbs\$266.1of2.amsat  
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-266.0  
Orbital Elements 266.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES  
FROM WA5QGD FORT WORTH,TX September 23, 1994  
BID: \$ORBS-266.0  
TO ALL RADIO AMATEURS BT

Satellite: A0-10  
Catalog number: 14129  
Epoch time: 94254.05030619  
Element set: 308  
Inclination: 26.8972 deg  
RA of node: 308.5366 deg  
Eccentricity: 0.6028238  
Arg of perigee: 209.9975 deg  
Mean anomaly: 94.5175 deg  
Mean motion: 2.05881264 rev/day  
Decay rate: -1.92e-06 rev/day^2  
Epoch rev: 8455  
Checksum: 324

Satellite: U0-11  
Catalog number: 14781

Epoch time: 94263.57473666  
Element set: 732  
Inclination: 97.7855 deg  
RA of node: 273.8325 deg  
Eccentricity: 0.0011504  
Arg of perigee: 330.5055 deg  
Mean anomaly: 29.5500 deg  
Mean motion: 14.69245930 rev/day  
Decay rate: 4.3e-07 rev/day^2  
Epoch rev: 56431  
Checksum: 307

Satellite: RS-10/11  
Catalog number: 18129  
Epoch time: 94263.50806321  
Element set: 958  
Inclination: 82.9207 deg  
RA of node: 258.3796 deg  
Eccentricity: 0.0013008  
Arg of perigee: 115.1045 deg  
Mean anomaly: 245.1460 deg  
Mean motion: 13.72341562 rev/day  
Decay rate: 3.1e-07 rev/day^2  
Epoch rev: 36298  
Checksum: 291

Satellite: A0-13  
Catalog number: 19216  
Epoch time: 94256.93865187  
Element set: 964  
Inclination: 57.7380 deg  
RA of node: 231.2127 deg  
Eccentricity: 0.7232007  
Arg of perigee: 350.2215 deg  
Mean anomaly: 0.9340 deg  
Mean motion: 2.09725609 rev/day  
Decay rate: -4.12e-06 rev/day^2  
Epoch rev: 4787  
Checksum: 302

Satellite: F0-20  
Catalog number: 20480  
Epoch time: 94261.38526384  
Element set: 726  
Inclination: 99.0514 deg  
RA of node: 35.6582 deg  
Eccentricity: 0.0541300  
Arg of perigee: 128.3652 deg

Mean anomaly: 236.7383 deg  
Mean motion: 12.83227663 rev/day  
Decay rate: -2.4e-07 rev/day^2  
Epoch rev: 21608  
Checksum: 296

Satellite: A0-21

Catalog number: 21087  
Epoch time: 94260.98935951  
Element set: 513  
Inclination: 82.9371 deg  
RA of node: 74.0296 deg  
Eccentricity: 0.0034792  
Arg of perigee: 183.1054 deg  
Mean anomaly: 176.9892 deg  
Mean motion: 13.74544644 rev/day  
Decay rate: 9.4e-07 rev/day^2  
Epoch rev: 18233  
Checksum: 330

Satellite: RS-12/13

Catalog number: 21089  
Epoch time: 94261.15456134  
Element set: 730  
Inclination: 82.9220 deg  
RA of node: 302.5081 deg  
Eccentricity: 0.0028116  
Arg of perigee: 207.6788 deg  
Mean anomaly: 152.2863 deg  
Mean motion: 13.74046397 rev/day  
Decay rate: 3.8e-07 rev/day^2  
Epoch rev: 18141  
Checksum: 294

Satellite: ARSENE

Catalog number: 22654  
Epoch time: 94262.03583661  
Element set: 280  
Inclination: 2.0483 deg  
RA of node: 94.8577 deg  
Eccentricity: 0.2912797  
Arg of perigee: 191.9219 deg  
Mean anomaly: 161.1305 deg  
Mean motion: 1.42202795 rev/day  
Decay rate: -1.23e-06 rev/day^2  
Epoch rev: 253  
Checksum: 285



/EX

SB KEPS @ AMSAT \$ORBS-266.D  
Orbital Elements 266.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS  
FROM WA5QGD FORT WORTH, TX September 23, 1994  
BID: \$ORBS-266.D  
TO ALL RADIO AMATEURS BT

Satellite: UO-14  
Catalog number: 20437  
Epoch time: 94260.24520782  
Element set: 31  
Inclination: 98.5872 deg  
RA of node: 343.7577 deg  
Eccentricity: 0.0010412  
Arg of perigee: 283.6457 deg  
Mean anomaly: 76.3562 deg  
Mean motion: 14.29855283 rev/day  
Decay rate: 2.1e-07 rev/day<sup>2</sup>  
Epoch rev: 24274  
Checksum: 303

Satellite: AO-16  
Catalog number: 20439  
Epoch time: 94261.20697721  
Element set: 829  
Inclination: 98.5961 deg  
RA of node: 346.0402 deg  
Eccentricity: 0.0010748  
Arg of perigee: 281.6298 deg  
Mean anomaly: 78.3679 deg  
Mean motion: 14.29909137 rev/day  
Decay rate: 6.0e-08 rev/day<sup>2</sup>  
Epoch rev: 24289  
Checksum: 341

Satellite: DO-17  
Catalog number: 20440  
Epoch time: 94260.73242676  
Element set: 830  
Inclination: 98.5967 deg  
RA of node: 345.9264 deg  
Eccentricity: 0.0010797  
Arg of perigee: 282.1116 deg  
Mean anomaly: 77.8842 deg  
Mean motion: 14.30049101 rev/day  
Decay rate: 2.3e-07 rev/day<sup>2</sup>

Epoch rev: 24284  
Checksum: 304

Satellite: W0-18  
Catalog number: 20441  
Epoch time: 94260.77940046  
Element set: 832  
Inclination: 98.5964 deg  
RA of node: 345.9670 deg  
Eccentricity: 0.0011387  
Arg of perigee: 282.6574 deg  
Mean anomaly: 77.3334 deg  
Mean motion: 14.30022831 rev/day  
Decay rate: 8.0e-08 rev/day<sup>2</sup>  
Epoch rev: 24285  
Checksum: 312

Satellite: L0-19  
Catalog number: 20442  
Epoch time: 94261.24106417  
Element set: 828  
Inclination: 98.5972 deg  
RA of node: 346.7038 deg  
Eccentricity: 0.0011669  
Arg of perigee: 280.6449 deg  
Mean anomaly: 79.3421 deg  
Mean motion: 14.30120276 rev/day  
Decay rate: 1.4e-07 rev/day<sup>2</sup>  
Epoch rev: 24293  
Checksum: 302

Satellite: U0-22  
Catalog number: 21575  
Epoch time: 94260.74803762  
Element set: 534  
Inclination: 98.4283 deg  
RA of node: 333.3428 deg  
Eccentricity: 0.0008359  
Arg of perigee: 19.5123 deg  
Mean anomaly: 340.6381 deg  
Mean motion: 14.36931313 rev/day  
Decay rate: 1.0e-08 rev/day<sup>2</sup>  
Epoch rev: 16637  
Checksum: 295

Satellite: K0-23  
Catalog number: 22077  
Epoch time: 94260.60791282

Element set: 427  
Inclination: 66.0822 deg  
RA of node: 86.4803 deg  
Eccentricity: 0.0015420  
Arg of perigee: 264.9756 deg  
Mean anomaly: 94.9498 deg  
Mean motion: 12.86287179 rev/day  
Decay rate: -3.7e-07 rev/day^2  
Epoch rev: 9867  
Checksum: 342

Satellite: A0-27

Catalog number: 22825  
Epoch time: 94261.24026932  
Element set: 327  
Inclination: 98.6472 deg  
RA of node: 336.0840 deg  
Eccentricity: 0.0008396  
Arg of perigee: 304.1084 deg  
Mean anomaly: 55.9297 deg  
Mean motion: 14.27634336 rev/day  
Decay rate: -5.0e-08 rev/day^2  
Epoch rev: 5096  
Checksum: 310

Satellite: I0-26

Catalog number: 22826  
Epoch time: 94265.20906155  
Element set: 326  
Inclination: 98.6469 deg  
RA of node: 340.0607 deg  
Eccentricity: 0.0008701  
Arg of perigee: 291.5298 deg  
Mean anomaly: 68.4957 deg  
Mean motion: 14.27739405 rev/day  
Decay rate: -3.0e-07 rev/day^2  
Epoch rev: 5153  
Checksum: 317

Satellite: K0-25

Catalog number: 22830  
Epoch time: 94261.20397519  
Element set: 332  
Inclination: 98.5472 deg  
RA of node: 332.3546 deg  
Eccentricity: 0.0010765  
Arg of perigee: 265.5648 deg  
Mean anomaly: 94.4296 deg

Mean motion: 14.28063452 rev/day  
Decay rate: 1.4e-07 rev/day^2  
Epoch rev: 5097  
Checksum: 310

Satellite: 22828  
Catalog number: 22828  
Epoch time: 94261.69386811  
Element set: 304  
Inclination: 98.6420 deg  
RA of node: 336.6006 deg  
Eccentricity: 0.0009634  
Arg of perigee: 285.7967 deg  
Mean anomaly: 74.2151 deg  
Mean motion: 14.28066214 rev/day  
Decay rate: 1.0e-07 rev/day^2  
Epoch rev: 1912  
Checksum: 312

/EX

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Date: 23 Sep 94 14:51:00 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: orbs\$266.21.amsat  
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-266.N  
2Line Orbital Elements 266.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT  
FROM WA5QGD FORT WORTH,TX September 23, 1994  
BID: \$ORBS-266.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:  
1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ  
2 AAAAA EEE.EEEE FFF.FFFF GGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ  
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN  
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10  
1 14129U 83058B 94254.05030619 -.00000192 00000-0 10000-3 0 3080  
2 14129 26.8972 308.5366 6028238 209.9975 94.5175 2.05881264 84553  
UO-11  
1 14781U 84021B 94263.57473666 .00000043 00000-0 15101-4 0 7328

2 14781 97.7855 273.8325 0011504 330.5055 29.5500 14.69245930564319  
 RS-10/11  
 1 18129U 87054A 94263.50806321 .00000031 00000-0 16789-4 0 9588  
 2 18129 82.9207 258.3796 0013008 115.1045 245.1460 13.72341562362984  
 AO-13  
 1 19216U 88051B 94256.93865187 -.00000412 00000-0 10000-4 0 9649  
 2 19216 57.7380 231.2127 7232007 350.2215 0.9340 2.09725609 47870  
 FO-20  
 1 20480U 90013C 94261.38526384 -.00000024 00000-0 11456-4 0 7264  
 2 20480 99.0514 35.6582 0541300 128.3652 236.7383 12.83227663216082  
 AO-21  
 1 21087U 91006A 94260.98935951 .00000094 00000-0 82657-4 0 5131  
 2 21087 82.9371 74.0296 0034792 183.1054 176.9892 13.74544644182336  
 RS-12/13  
 1 21089U 91007A 94261.15456134 .00000038 00000-0 24598-4 0 7304  
 2 21089 82.9220 302.5081 0028116 207.6788 152.2863 13.74046397181416  
 ARSENE  
 1 22654U 93031B 94262.03583661 -.00000123 00000-0 00000 0 0 2809  
 2 22654 2.0483 94.8577 2912797 191.9219 161.1305 1.42202795 2536  
 UO-14  
 1 20437U 90005B 94260.24520782 .00000021 00000-0 25048-4 0 314  
 2 20437 98.5872 343.7577 0010412 283.6457 76.3562 14.29855283242741  
 AO-16  
 1 20439U 90005D 94261.20697721 .00000006 00000-0 19484-4 0 8296  
 2 20439 98.5961 346.0402 0010748 281.6298 78.3679 14.29909137242893  
 DO-17  
 1 20440U 90005E 94260.73242676 .00000023 00000-0 25767-4 0 8302  
 2 20440 98.5967 345.9264 0010797 282.1116 77.8842 14.30049101242843  
 WO-18  
 1 20441U 90005F 94260.77940046 .00000008 00000-0 20293-4 0 8327  
 2 20441 98.5964 345.9670 0011387 282.6574 77.3334 14.30022831242854  
 LO-19  
 1 20442U 90005G 94261.24106417 .00000014 00000-0 22526-4 0 8280  
 2 20442 98.5972 346.7038 0011669 280.6449 79.3421 14.30120276242933  
 UO-22  
 1 21575U 91050B 94260.74803762 .00000001 00000-0 14773-4 0 5345  
 2 21575 98.4283 333.3428 0008359 19.5123 340.6381 14.36931313166370  
 KO-23  
 1 22077U 92052B 94260.60791282 -.00000037 00000-0 10000-3 0 4273  
 2 22077 66.0822 86.4803 0015420 264.9756 94.9498 12.86287179 98678  
 AO-27  
 1 22825U 93061C 94261.24026932 -.00000005 00000-0 15790-4 0 3275  
 2 22825 98.6472 336.0840 0008396 304.1084 55.9297 14.27634336 50963  
 IO-26  
 1 22826U 93061D 94265.20906155 -.00000030 00000-0 58551-5 0 3260  
 2 22826 98.6469 340.0607 0008701 291.5298 68.4957 14.27739405 51531  
 KO-25  
 1 22830U 93061H 94261.20397519 .00000014 00000-0 22905-4 0 3320

2	22830	98.5472	332.3546	0010765	265.5648	94.4296	14.28063452	50973
22828								
1	22828U	93061F	94261.69386811	.00000010	00000-0	21704-4	0	3044
2	22828	98.6420	336.6006	0009634	285.7967	74.2151	14.28066214	19120
NOAA-9								
1	15427U	84123A	94264.78473792	.00000108	00000-0	81246-4	0	9612
2	15427	99.0391	316.3555	0014722	310.1811	49.8067	14.13644294503900	
NOAA-10								
1	16969U	86073A	94264.71043503	.00000025	00000-0	28636-4	0	8583
2	16969	98.5109	270.7745	0014197	49.6655	310.5763	14.24905697416243	
MET-2/17								
1	18820U	88005A	94264.84702047	.00000030	00000-0	13558-4	0	4058
2	18820	82.5428	191.6933	0015357	273.2351	86.7043	13.84721360335730	
MET-3/2								
1	19336U	88064A	94263.50790002	.00000051	00000-0	10000-3	0	3270
2	19336	82.5348	256.2229	0019482	27.1381	333.0750	13.16968720295806	
NOAA-11								
1	19531U	88089A	94264.86831799	.00000065	00000-0	59916-4	0	7799
2	19531	99.1796	256.1884	0011153	219.8719	140.1625	14.13017320308792	
MET-2/18								
1	19851U	89018A	94263.48156725	.00000012	00000-0	-27195-5	0	3270
2	19851	82.5102	67.9382	0014714	326.7609	33.2607	13.84371975280873	
MET-3/3								
1	20305U	89086A	94265.26027486	.00000044	00000-0	10000-3	0	1514
2	20305	82.5530	202.8546	0007809	46.2814	313.8946	13.04410592235554	
MET-2/19								
1	20670U	90057A	94260.68464305	-.00000033	00000-0	-42409-4	0	8296
2	20670	82.5473	135.0161	0014451	248.4464	111.5145	13.84181599213418	
FY-1/2								
1	20788U	90081A	94265.07669375	-.00000027	00000-0	10000-4	0	1034
2	20788	98.8262	282.1036	0016870	102.6160	257.6893	14.01330748207271	
MET-2/20								
1	20826U	90086A	94262.53810013	.00000035	00000-0	17796-4	0	8389
2	20826	82.5206	70.9087	0013824	138.2251	221.9964	13.83589113200809	
MET-3/4								
1	21232U	91030A	94260.58744253	.00000050	00000-0	10000-3	0	7360
2	21232	82.5399	104.2812	0012941	320.4884	39.5272	13.16464714163513	
NOAA-12								
1	21263U	91032A	94264.63268759	.00000085	00000-0	57275-4	0	1883
2	21263	98.6110	290.2587	0012645	321.6371	38.3904	14.22448820174212	
MET-3/5								
1	21655U	91056A	94263.48785247	.00000051	00000-0	10000-3	0	7425
2	21655	82.5466	49.4259	0012649	325.0841	34.9446	13.16833670149002	
MET-2/21								
1	22782U	93055A	94260.60958337	.00000017	00000-0	22009-5	0	3377
2	22782	82.5444	133.2096	0023099	331.1116	28.8772	13.83014568	52867
POSAT								
1	22829U	93061G	94261.70111181	-.00000006	00000-0	15528-4	0	3192

2 22829 98.6438 336.6264 0009543 287.0663 72.9463 14.28040464 51040  
MIR  
1 16609U 86017A 94263.91337372 .00002349 00000-0 38527-4 0 7684  
2 16609 51.6465 67.4039 0002303 55.9412 304.1818 15.57092900490932  
HUBBLE  
1 20580U 90037B 94263.56201773 .00000403 00000-0 24959-4 0 5377  
2 20580 28.4704 343.3027 0006270 8.3135 351.7553 14.90675622 43636  
GRO  
1 21225U 91027B 94263.40288782 .00001913 00000-0 38561-4 0 1425  
2 21225 28.4631 290.9650 0003518 201.9854 158.0562 15.41277550 71647  
UARS  
1 21701U 91063B 94265.10692193 .00002274 00000-0 21972-3 0 5981  
2 21701 56.9866 130.6744 0004615 113.8817 246.2705 14.96465254165445  
/EX

-----  
Date: 23 Sep 94 21:56:50 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: TH79a For Sale  
To: info-hams@ucsd.edu

Hi All,

I'm posting this ad for a friend, who does not have access to INet.

FOR SALE: Kenwood TH79a (3mo old) complete. Has been moded for  
MARS/CAP (ie, green wire cut). No other mods.  
\$450.00, shipping included. M.O., Certified Check, Cash.

If you are interested, e-mail me directly. Or call Sean Ring N0SHU, at  
816-454-2970 (that's in Kansas City, MO).

Thanks for the bandwidth (I don't have access to the news groups, where this  
should have been posted).

73 de KB0LRB Lynn  
geitgey@ukanvm.cc.ukans.edu  
geitgey@ukanvm.bitnet

-----  
Date: 23 Sep 1994 09:09:38 GMT  
From: news.delphi.com!gilbaronw0mn@uunet.uu.net  
Subject: Wuoff hong  
To: info-hams@ucsd.edu

>>And if you violated the rules well it looks like a pretty good way to club  
>>you into submission.

>

> Ahem.....well, "club you into submission" isn't exactly, ahem, how  
>it was intended to be used.....but I couldn't possibly elaborate...

>

>

>

Aheem well I could not give that away could I? I mean some things have to  
be learned the hard way, right? You would not be a lid anymore though.

Gil Baron, El Baron Rojo, WOMN Rochester,MN  
"Bailar es Vivir"  
PGP2.6 key upon request

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Date: Fri, 23 Sep 1994 13:22:46 GMT  
From: newsgate.melpar.esys.com!melpar!phb@uunet.uu.net  
Subject: Wuoff hong  
To: info-hams@ucsd.edu

gilbaronw0mn@delphi.com (Gilbert Baron) writes:

>

>>>And if you violated the rules well it looks like a pretty good way to club  
>>>you into submission.

>>

>> Ahem.....well, "club you into submission" isn't exactly, ahem, how  
>>it was intended to be used.....but I couldn't possibly elaborate...

>>

>>

>>

>Aheem well I could not give that away could I? I mean some things have to  
>>be learned the hard way, right? You would not be a lid anymore though.

Suffice it to say that it would \*certainly\* get one's attention. ;-)

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Date: 23 Sep 94 08:22:42 EST  
From: news1.hh.ab.com!iccgcc.cs.hh.ab.com!lieser@uunet.uu.net  
To: info-hams@ucsd.edu

References <CwE5Fu.41t@srngenprp.sr.hp.com>, <CwHy4y.BAx@odin.corp.sgi.com>,  
<CwInpI.G5L@news.Hawaii.Edu>>ú



Subject : Re: Why is aviation COM VHF \*amplitude\* modulated?

In article <CwInpI.G5L@news.Hawaii.Edu>, jeffrey@kahuna.tmc.edu (Jeffrey Herman) writes:

> I think the best answer so far was that FM's capture effect would  
> be detrimental, if not dangerous, to air-ground comms.

I read somewhere recently that it was due to the cost of having to switch over to all new equipment, and the FAA or whoever finally just said "The heck with it."

Ed Lieser  
Allen-Bradley Co.

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Date: Fri, 23 Sep 1994 14:53:26 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!  
newsfeed.pitt.edu!gvls1!rossi@network.ucsd.edu  
To: info-hams@ucsd.edu

References <1994Sep19.134053.4255@newsgate.sps.mot.com>, <CwDxGt.6x8@cup.hp.com>, <linleyCwKGsn.DG0@netcom.com>du  
Subject : Re: Restrictive Covenants: I can't have \*any\* antenna?

In article <linleyCwKGsn.DG0@netcom.com> linley@netcom.com (Bruce James Robert Linley) writes:

>In ye olden post jholly@cup.hp.com (Jim Hollenback) spake...

>>Michael R. Dow (R1156C@WACCVM.CORP.MOT.COM) wrote:

>>

>>: GENERAL RESTRICTIONS:

>>

>>: Antennae: No exterior radio or television antenna or aerial or satellite

>>: dish receiver, or other devices designed to receive telecommunication

It's all a plot to favor the CATV franchise...

1. Builder plans to build a nice "development" in a "near fringe" area that for the most part will require an outside antenna for decent TV reception.

2. Builder and CATV franchise make a "deal" -- CATV franchise will pay the builder if he arranges to slap an outside antenna restriction on EVERY house in the development then everybody will be REQUIRED to subscribe to CATV if they want to watch TV.

3. Builder figures that most people will probably want CATV so he goes along. Builder makes money... CATV company makes \*lots\* of money.. Home owners pay

for it all.. Its simple ;-)

Just wait.. In a few years when direct satellite programming becomes more popular and companies selling this service start to really grow and realize that there is lots of money to be made... but the subscribers will require a "small" satellite antenna on their roof.. the franchises will be looking for new subscribers in these "antenna restricted" areas.. and you will see these silly outdoor antenna restrictions lifted.. at least for the satellite antennas.. unless they figure out a way to make it work with an indoor antenna.

SIDE NOTE: Have you ever had your CATV service disconnected? The first thing they ask you is " Where are you moving to? " ... and when you say " I'm not moving -- I just don't want cable anymore " they just look at you funny... almost in disbelief!

=====

Pete Rossi - WA3NNA

rossi@vfl.paramax.COM

Unisys Corporation - Government Systems Group  
Valley Forge Engineering Center - Paoli, Pennsylvania

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End of Info-Hams Digest V94 #1055

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